

Mr. Joe Bevington, FM-4 Wisconsin Department of Natural Resources 101 S. Webster Madison, WI 53703 608.264.9257

Arcadis U.S., Inc.
126 North Jefferson Street
Milwaukee, Wisconsin 53202
www.arcadis.com

Subject:

2020 Scientific Collectors Permit Annual Report for Fish Sampling in Private Ponds, Marinette, Wisconsin

Dear Mr. Bevington:

This letter summarizes fish collection activities performed under Arcadis US, Inc.'s (Arcadis') Scientific Collectors Permit SCP-FM-2020-059 in private ponds in Marinette County, Wisconsin for per- and poly-fluorinated alkyl substances (PFAS). This work was conducted on behalf of Tyco Fire Products LP (Tyco) in accordance with Arcadis' 2019 Fish Tissue Sampling Work Plan to investigate the nature and extent of PFAS related to the Ansul Fire Technology Center located at 2700 Industrial Parkway South, Marinette, Wisconsin (Site; Figure 1).

On August 26 and 27, 2020, Arcadis biologists collected resident fish samples from three ponds (identified as SW14, SW37 and SW38 in Figure 2) using boatmounted electrofishing equipment and hook-and-line methods (angling and trot lines). Sampling targeted three to five edible size fish per species for three individual species, resulting in a total of nine to 15 fish tissue samples collected from each of the three ponds. Up to 45 edible fish tissue fillet samples were proposed for collection; however, due to limited fish abundance and availability, a total of 28 edible fish tissue samples were collected (see attached Annual Report Form and counts below). The fish collected were the largest size fish captured during the sampling effort and included the following:

- Benthic bottom feeder (e.g., bullhead, catfish, suckers) No benthic bottom feeders were observed or collected from any of the three ponds.
- Benthopelagic panfish (e.g., perch, sunfish, crappie) A total of 5 yellow perch were collected from SW14, 2 from SW37, and 5 from SW38, ranging in size from 6.6 to 10.9 inches. A total of 5 bluegill sunfish were collected from SW14, 5 pumpkinseed from SW37, and 1 green sunfish at SW38, ranging in size from 5.9 to 7.6 inches.

Tyco Environmental Assessment Call Line: (800) 314-1381

Responsible Party:
Tyco Fire Products LP
2700 Industrial Parkway S
Marinette, WI 54143

Site Name:
Tyco Fire Technology Center

BRRTS No.: 02-38-580694

Mr. Joe Bevington, FM-4 Wisconsin Department of Natural Resources January 8, 2021

- Carnivorous predator (e.g., bass) – A total of 5 largemouth bass were collected from SW14, ranging in size from 11.3 to 12.8 inches. No bass or other carnivorous fish species were observed or collected from the other ponds.

Fish samples were sent to Eurofins TestAmerica in Sacramento, California and SGS AXYS Analytical Services, Ltd. in Sidney, British Columbia for PFAS (36 compounds) and percent solids analysis in skinon, scales-off edible fillets. Information on the number of fish collected, including collection dates and locations, is presented in the attached Annual Report Form.

Submittal of this information is intended to fulfill the reporting requirements of our sampling permit. At this time, we do not wish to renew our permit for 2021. If you have any questions or require any additional information, please contact me at your convenience.

Sincerely,

Arcadis U.S., Inc.

David J. Buys Senior Ecologist

Copies:

Alyssa Sellwood, Wisconsin Department of Natural Resources Scott Wahl, Tyco Fire Products LP Jeff Danko, Johnson Controls, Inc. Shannon Dunn, Arcadis Scott Potter, Arcadis Elizabeth Hover, Arcadis

## State of Wisconsin Department of Natural Resources

## SCIENTIFIC COLLECTORS ANNUAL REPORT

(Due January 10 of Following Year)

s. 29.614, Wis. Stats., and s. NR 19.11, Wis. Adm. Code

Form 9400-381 Rev. 2-00

Please read instructions on reverse side thoroughly before completing report.  Shaded areas for DNR use only; please leave blank.													Permit Number: SCP-FM-2020-059			
	• •			Age or	Age or		Date Taken			Collection Site			Disposition of	In	ıform	nation
Species					Size Class		Mo. Day		Yr.	County		Locality	Specimens or Items	Coding		ing
Largemouth bass (Micropterus salmoides)	<u>                                     </u>			11.3-12.8 ir	1	5	8	26	2020	Marinette		SW14	Shipped to Eurofins Test	ļ		
Yellow perch (Perca flavescens)				8.9-10.9 in		5	8	26	2020	Marinette		SW14	America in Sacramento, CA	ļ		
Bluegill (Lepomis macrochirus)	ļ			7.0-7.4 in		3	8	26	2020	Marinette	<b></b>	SW14	and SGS AXYS Analytical			
Bluegill (Lepomis macrochirus)				7.2-7.6 in		2	8	27	2020	Marinette		SW14	Services, Ltd. in Sidney, BC	ļ		
Yellow perch (Perca flavescens)	<u>                                     </u>			7.4-11.5 in		2	8	26	2020	Marinette		SW37	for PFAS and percent solid	ļ		
Pumkinseed (Lepomis gibbosus)				5.9-6.2 in		5	8	26	2020	Marinette	<u> </u>	SW37	analysis in edible fillet tissue.			
Yellow perch (Perca flavescens)	ļļ.			6.6-8.3 in		5	8	26	2020	Marinette		SW38				
Green sunfish (Lepomis cyanellus)				5.9 in		1	8	26	2020	Marinette		SW38		<u> </u>		
														1		
														<u> </u>		
	·															
	<u>.</u>						<b></b>		<b></b>		<u> </u>					
Remarks:  Do you want the DNR permit renewed?														Yes	0	No X
All fish were collected using a boat-mounted electrofishing unit and hook-and-line methods by permittee David Buys and Do you hold a federal collecting permit?												Yes	0	No X		
subpermittees Ryan Bombeck, Michael Reitz and Samantha Kitchen of Arcadis. All individual fish were submitted whole to the analytical laboratory and processed as skin-on, scales-off fillets for analysis of PFAS (36 compounds) and percent because the submitted whole to the analytical laboratory and processed as skin-on, scales-off fillets for analysis of PFAS (36 compounds) and percent																
solids. Fish gender was not determined.																
											re you at any time during the past year convicted of any lation of the fish or game laws of Wisconsin?				o	No X
					est of my knowledge and belief, the above facts are complete, correct and not misinterpreted in any way											
non-renewal of the permit. S. NR 19.11, Wis. Adm. Code				e's Signature:	$\geq$	5-118	1		_		Address Arcadis, 110 W. Fayette St. Ste. 300, Syracuse, NY 13202					

LEGEND:

APPROXIMATE SITE PROPERTY BOUNDARY

TYCO FIRE PRODUCTS, LP MARINETTE, WISCONSIN

FISH TISSUE SAMPLING WORK PLAN

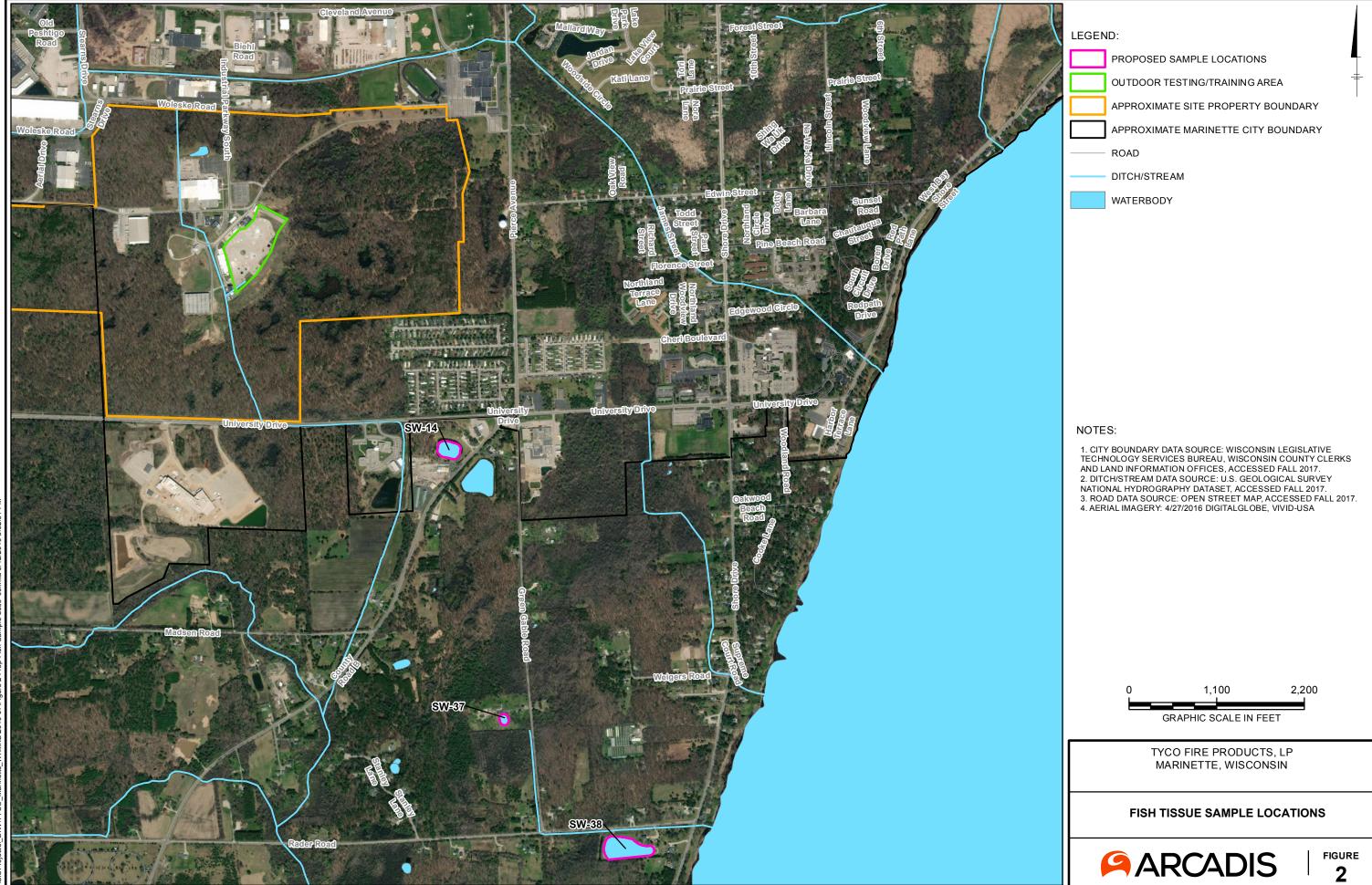
SITE LOCATION



FIGURE

NOTES:

1. TOPOGRAPHIC MAP SOURCE: COPYRIGHT:© 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED, ACCESSED SEPTEMBER, 2019.



City. Minneapolis/Citrix Div/Group: IMDVC Created By: Last Saved By: msmiller TYCO Marinette, WI TYCO MARINETTY STORIS Pointed STAND Marinette WIMMXD)20140,077 Finus 2 Pron Elsh Sample I process mad 8/12/2014 3-45.